

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6469 (1972): Harpoon Trocar (Tilley's Pattern) [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 OCTOBER 1979
TO
IS:6469-1972 SPECIFICATION FOR HARPOON
TROCAR (TILLEY'S PATTERN)

Alteration

(Page 2, clause 6.2) - Substitute the following
for the existing clause:

"6.2 *Corrosion Resistance* - The instrument shall
satisfy the boiling and autoclaving test as specified
in IS:7531-1975 'Method for boiling and autoclaving
test for corrosion resistance of stainless steel
surgical instruments'."

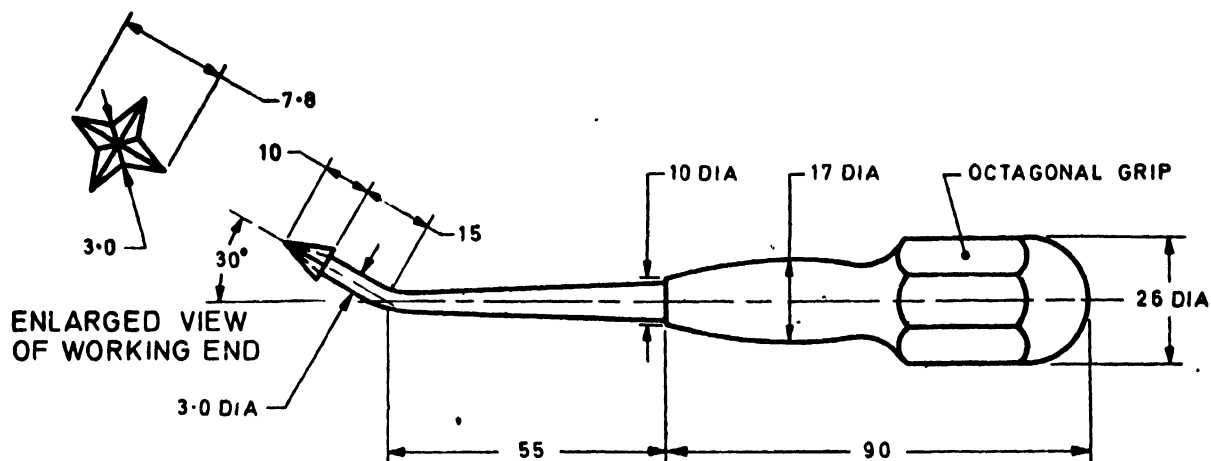
(CPDC 26)

Indian Standard

SPECIFICATION FOR
HARPOON TROCAR (TILLEY'S PATTERN)

1. Scope — Dimensional and other requirements of Tilley's harpoon trocar used by ENT surgeons for breaking down wall in antrum surgery.

2. Shape and Dimensions — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 HARPOON TROCAR (TILLEY'S PATTERN)

3. Materials — The trocar portion shall be of stainless steel conforming to Designation 30Cr13 of Schedule V of IS : 1570-1961 'Schedules for wrought steels for general engineering purposes' or of the following composition:

Carbon	0.35 to 0.45
Silicon	0.6 Max
Manganese	0.6 Max
Chromium	12 to 14
Nickel	0.6 Max
Sulphur	0.03 Max
Phosphorus	0.03 Max

Handle shall be of stainless steel conforming to Designation 30Cr13 or brass.

4. Workmanship and Finish

4.1 The trocar edges shall be well-cut, clean, sharp and free from nicks, feathers and pits. The working end shall be symmetrical. The instrument shall be well-balanced.

4.2 All edges, except the trocar edges, shall be even, rounded and nowhere sharp. All surfaces shall be smooth and free from burrs, pits, cracks and other surface flaws.

4.3 Handle shall be hollow and shall be fitted to the trocar shank by screwing and silver soldered. The silver soldering shall be sound and neat.

4.4 The trocar and the handle when made of stainless steel shall be passivated and polished bright. The brass handle shall be plated chromium over nickel and the plating shall conform to Service Grade No. 2 of IS : 4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys'.

Adopted 24 February 1972

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Gr 1

IS : 6469 - 1972

5. Heat Treatment—The trocar portion shall be hardened and tempered to a hardness of 430 to 490 HV.

6. Tests

6.1 Performance Test — Take a piece of cardboard 1.5 mm thick. Hold the cardboard piece in such a way that it is supported by thumb and first two fingers. The fingers shall support the cardboard piece to enable the trocar to punch through the cardboard. Keeping the trocar point against the cardboard, push the trocar by hand to make a hole in the cardboard. The hole shall be cleanly made with a moderate push of the hand. The trocar tip and edges shall not get damaged during the test.

6.2 Corrosion Resistance Test for Stainless Steel Components — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Make up the solution as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Distilled water (H_2O) [see IS : 1070-1960 Specification for water, distilled quality (revised)]	90.0 ml

No red stains or spots on the sample shall be allowed, but dulling of the polished surface may be permitted.

7. Marking — Mark with the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) Words 'Stainless Steel' on trocar shank.

7.1 ISI Certification Marking — Details available from the Indian Standards Institution, New Delhi 1.

8. Packing — As agreed to between the purchaser and the supplier. The trocar edges shall be suitably protected.